

# **Product Information Sheet for NR-44123**

## Amblyomma americanum Larvae

## Catalog No. NR-44123

This reagent is the tangible property of the U.S. government

## For research use only. Not for use in humans.

#### Contributor:

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### Manufacturer:

CDC, Atlanta, Georgia, USA

## **Product Description:**

Classification: Ixodidae, Amblyomma

<u>Species</u>: Amblyomma americanum (common name: lone star tick)

<u>Original Source</u>: Amblyomma americanum (A. americanum) ticks were flagged from vegetation in 2003 in Georgia, USA.<sup>1</sup>

<u>Transmission Competent Pathogens</u>: Ehrlichia chaffeensis, Ehrlichia ewingii and Panola Mountain ehrlichial agent

<u>Comments</u>: This *A. americanum* colony may contain rickettsial endosymbionts.<sup>1</sup> The mitochondrial genome of a representative *A. americanum* colony has been sequenced (GenBank: NC 027609).<sup>2</sup>

### **Material Provided:**

NR-44123 contains a live, wild-type A. americanum larval batch.

<u>Note</u>: *A. americanum* can also be obtained in adult (NR-42514) or nymph forms (NR-44124).

## Packaging/Storage:

NR-44123 is prepared and shipped by the CDC. The product is provided at room temperature and should be placed in an incubator or used immediately.

## **Growth Conditions:**

All life stages are fed on New Zealand White rabbits. The contributor recommends standardized laboratory conditions for the maintenance of ticks.<sup>3</sup>

#### Citation:

Acknowledgment for publications should read "The following reagent was deposited by the Centers for Disease Control and Prevention and obtained through BEI Resources, NIAID, NIH: *Amblyomma americanum* Larvae, NR-44123."

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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#### References:

- 1. Levin, M. L., Personal Communication.
- Williams-Newkirk, A. J., et al. "The Mitochondrial Genome of the Lone Star Tick (Amblyomma americanum)." <u>Ticks</u> <u>Tick Borne Dis.</u> 6 (2015): 793-801. PubMed: 26189992.
- Troughton, D. R. and M. L. Levin. "Life Cycles of Seven Ixodid Tick Species (Acari: Ixodidae) Under Standardized Laboratory Conditions." <u>J. Med. Entomol.</u> 44 (2007): 732-740. PubMed: 17915502.

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